

AC
Such valve solenoids have long been known and are evident, for example, from the German utility model 90 03 343 or from the US patent No. 5,138,292.

Page 2, after line 9 insert --SUMMARY OF THE INVENTION--;
the paragraphs starting at line 10:

AB
The object of the invention is to provide an explosionproof valve solenoid that can easily be manufactured at low cost while satisfying the ignition protection type "pressure-resistant encapsulation" in the region where external cables are connected.

FOI 50090860
This object is achieved according to the invention, in a valve solenoid of the type described above, in that the coil and the iron circuit are embedded in a casting compound introduced into a housing part, which casting compound prevents an explosive atmosphere reaching live parts and is simultaneously used for fixing purposes and electrical insulation (cast encapsulation). Connecting elements of the coil are arranged in a housing part which withstands internal pressure in the case of an explosion and prevents transmission of the explosion to the environment (pressure-resistant encapsulation).

Page 3, the paragraph starting at line 21:

AB
Further advantages and features of the invention are the subject matter of the following description and of the drawing representation of an embodiment of the invention.

after line 24 insert --BRIEF DESCRIPTION OF THE
DRAWING--.

Page 4, after line 4 [✓] insert --DETAILED DESCRIPTION OF THE
PREFERRED EMBODIMENTS--.

Page 5, [✓] the paragraph starting at line 1:

AS
The housing part 11 is closed at its end by a cap 17. This engages, by means of
a protrusion 17a on it, in an end-face opening 18 in the housing in such a way that a
predetermined length of the protrusion 17a overlaps the opening 18, which is complementary
to the protrusion 17a, so as to form a gap between the protrusion 17a and the opening 18
which is secure against ignition penetration. In addition, a seal 60 can be provided which, in
the assembled state, is arranged between the cap 17 and the housing 10.

after line 20 insert the following: [✓]

Thus, while there have been shown and described and pointed out fundamental
novel features of the present invention as applied to a preferred embodiment thereof, it will be
understood that various omissions and substitutions and changes in the form and details of the
devices illustrated, and in their operation, may be made by those skilled in the art without
departing from the spirit of the present invention. For example, it is expressly intended that all
combinations of those elements and/or method steps which perform substantially the same
function in substantially the same way to achieve the same results are within the scope of the
invention. Substitutions of elements from one described embodiment to another are also fully
intended and contemplated. It is also to be understood that the drawings are not necessarily
drawn to scale but that they are merely conceptual in nature. It is the intention, therefore, to be
limited only as indicated by the scope of the claims appended hereto.